

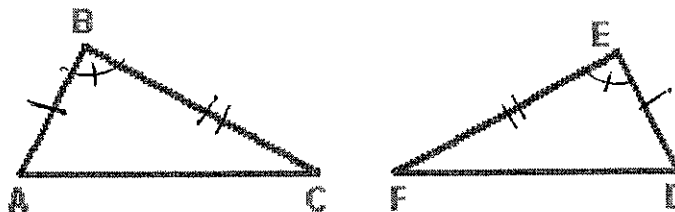
Name: _____

Date: _____

Per.: _____

Notes: Introduction to Proofs

- ① Given: $\overline{AB} \cong \overline{DE}$
 $\angle B \cong \angle E$
 $\overline{BC} \cong \overline{EF}$
 Prove: $\triangle ABC \cong \triangle DEF$

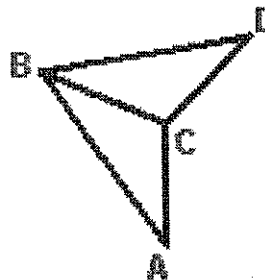


- ① Mark the givens on the diagram!
 ② Set up a two-column proof and insert givens.

| Statements | Reasons |
|-------------------------------------|---------|
| $\overline{AB} \cong \overline{DE}$ | Given |
| $\angle B \cong \angle E$ | Given |
| $\overline{BC} \cong \overline{EF}$ | Given |

You complete
the rest!

- ② Given: $\angle D \cong \angle A$
 $\angle BCD \cong \angle BCA$
 Prove: $\triangle ABC \cong \triangle DCB$

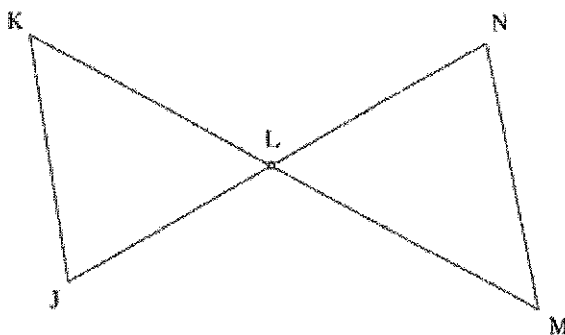


WLPCS
Geometry

3

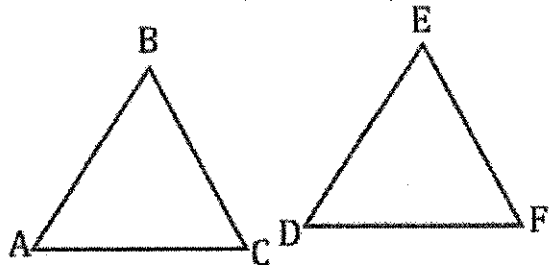
Given: $\angle K \cong \angle M$
 $KL \cong ML$

Prove: $\triangle K LJ \cong \triangle MLN$



4

Given: $\overline{BC} \cong \overline{EF}$, $\angle B \cong \angle E$, and $\angle C \cong \angle F$



Given: $\angle CAD \cong \angle CBD$
 $\angle ACD \cong \angle BCD$

Prove: $\triangle ADC \cong \triangle BDC$